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www.alfaisal.edu

# Application:

For detailed admission requirements and how to apply, please visit the Alfaisal University website: <http://admissions.alfaisal.edu/en/criteria>

For more information please contact:



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# THE FUTURE LOOKS BRIGHT.

Undergraduate Program Life Sciences



جامعة الفيصل  
Alfaisal University



10  
Years of Excellence



[About the Life Science Program](#)

## WHY STUDY LIFE SCIENCES AT ALFAISAL UNIVERSITY?

Life sciences research is nowadays experiencing a rapid growth and its nature is becoming more and more interdisciplinary. In order to meet the demand in this fast-growing field, Life Sciences Program at Alfaisal University provides a research-oriented degree that will promote an understanding of the fundamental biological processes with emphasis on genetic mechanisms, particularly in relation to human health as well as cross-disciplinary programs that integrate bioinformatics, mathematical modelling, medicinal chemistry and nanotechnology.

The Life Sciences program capitalizes on the expertise of highly accomplished faculty from institutions with established international reputations, such as the University of Hong Kong, University of Tokyo, Wake Forest University, and KAUST.

**RANKED  
IN TOP  
500  
GLOBALLY**

Alfaisal University placed **#251 - 300** in the world for Life Sciences subject ranking by The 2018 Times Higher Education World University Subject Rankings.

**RANKED  
2<sup>ND</sup>  
IN  
ARAB REGION**

Alfaisal University ranked **second** in Life Sciences in Arab Region by The 2018 Times Higher Education World University Subject Rankings.

**RANKED  
2<sup>ND</sup>  
IN  
KINGDOM**

Alfaisal Life Sciences ranked **second** nationally & one of only three in Kingdom ranked in top 500 globally by The 2018 Times Higher Education World University Subject Rankings.



Research**RESEARCH FOCUSED**

In the Life Sciences undergraduate program at Alfaisal University there is a strong emphasis on research in the final year. During this time students gain hands on experience working in molecular biosciences & nanoscience laboratories with high calibre faculty and post-doctoral fellows. As a result students end up publishing papers and obtaining patents with faculty members. Well over 500 papers have been produced in this research area at Alfaisal University in the past 10 years.



**The Life Sciences Program at Alfaisal University provides a research-oriented degree that will promote understanding of the fundamental biological processes with emphasis on genetic mechanisms, particularly in relation to human health as well as cross-disciplinary programs that integrate bioinformatics, mathematical modelling, medicinal chemistry and nanotechnology. While biology remains the centrepiece of the life sciences, technological advances in molecular biology and biotechnology have led to a growing number of specializations and interdisciplinary fields.**

Facilities**STATE-OF-THE-ART FACILITIES**

**The College of Science offers excellent facilities for both students and staff. We have a number of specialist facilities equipped to cover all disciplines.**

**Alfaisal  
Nanomaterials  
Laboratory**

**Boisensors  
and  
Nanobiotechnology  
Laboratory**

The Nano-laboratories are used for teaching undergraduate and graduate students and conducting their graduation projects. They are also used for master students research projects and postdoctoral fellows and researchers in the field of nanotechnology.



[Career Prospects](#)

## FACTS ABOUT ALFAISAL LIFE SCIENCES GRADUATES

We continue to respond to the needs of employers, and our graduate employment record has been exceptional

Life Sciences program graduates are employed at:

King Faisal Specialist Hospital & Research Centre (KFSH&RC)

King Abdulaziz City for Science and Technology (KACST)

Prince Sultan Military Medical City (PSMMC)

Biotech start-ups

Graduates have also continued their education at:

Cancer Biology PhD Program at MD Anderson Cancer Centre (Houston,TX)

MS in Biotechnology Programs at Colombia University

University of Edinburgh

University College London

King Abdullah University of Science and Technology (KAUST)

[Career Prospects](#)

## EMPLOYABILITY IS OUR GOAL

Our program provides graduates with skills and knowledge that are of high demand in:

Leading research centers and institutes

Hospital research laboratories

Government ministries

Emerging pharmaceutical / Biotechnology industries

Private research laboratories

Consulting companies



Curriculum

# Curriculum & Study Plan

**Year 1**

Calculus I & II	Introduction to Computer
General Biology I & II	Science Freshmen English I & II
General Chemistry I & II	Humanity Course Elective
Arabic Language I & II	

**Year 2**

Mech. & Waves for Life Sci.	Electromagn. & Optics for LS
Probability & Statistics	Human Physiology & Anatomy
Organic Chemistry I & II	Microbiology
Islamic Studies I & II	Analytical Chemistry

**Year 3**

Molecular Biology I & II	Sci. Electives
Biochemistry I & II	Instrumental Analysis
Programming I	

**Year 4**

Life Sci. Research Project	Life Sci. Research Seminar
Life Sci. Special Topics	

**Electives:**

Medicinal Chemistry, Environmental Chemistry, Immunology, Cancer Biology, Signal Transduction, Human Genetics, Bioinformatics

**Special Topics:**

Epigenetics, Nanotechnology, Biotechnology